

REASON

- **To use TWGSS to its full potential, you must know how to operate TWGSS in the various training modes.**

TRAINING OBJECTIVE

- **Given an operational M1/M1A1 tank with TWGSS installed and aligned, the crew will conduct the following exercises:**
 - **Panel gunnery**
 - **Combat mode (force-on-force)**
 - **Scaled gunnery**
 - **Tracking training**

TWGSS TRAINING MODES

- **Panel gunnery**
- **Scaled gunnery (1/2 scale)**
- **Combat (force-on-force)**
- **Tracking training**

TRANSPARENCY

- The design of TWGSS, with full integration to the tank, requires the crew to perform the same procedures as used during live fire gunnery.

LASER RANGEFINDER (LRF) FUNCTION

- **TWGSS performs the laser rangefinder function**
- **Filtered LRF used as normal**

WARNING

**ENSURE LRF EYE-SAFE LASER FILTER IS
INSTALLED DURING ALL TWGSS TRAINING.**

TWGSS LRF TEMPLATE

LOADER'S PANEL

TBOS EFFECTS

- **Tracer simulation**
- **Burst simulation:**
 - **Ground burst**
 - **Burst on target**
- **Obscuration**

TBOS SIMULATION

MAX RANGE AMMUNITIONS

- **SABOT and HEAT to 3750 m**
- **COAX to 900 m**

RESULT PRESENTATION

- **Numerical**
- **Graphic**
- **No presentation**

FIRE RESULT

TARGET RESULT

ENGAGEMENT RESULT

- **HIT**
- **GROUND HIT**
- **MAX RANGE**

FIRING SYSTEM SOUND INDICATIONS

- **Ammunition door**
- **Closing of breech block**
- **Main gun fire**
- **COAX fire**

TARGET SYSTEM SOUND INDICATIONS

- **NEAR MISS (2 tones)**
- **HIT no KILL (4-6 tones)**
- **HIT and Kill (continous tone 30 sec)**

Note: MOBILITY KILL and WEAPON KILL are also indicated with 4-6 tones.

TARGET SYSTEM VISUAL INDICATIONS

- **NEAR MISS (2 indications)**
- **HIT no KILL (4-6 indications)**
- **HIT and KILL (continous indication)**

Note: MOBILITY KILL and WEAPON KILL are also indicated with 4-6 indications.

TARGET SYSTEM HIT FUNCTIONS

- **HIT (no KILL)**
- **HIT with MOBILITY KILL**
- **HIT with WEAPON KILL**
- **KILL**

TAMPER DURING COMBAT MODE

- **Sound indication**
- **TAMPER indicated on control panel**
- **Visual indication**

Note: TAMPER will be indicated during 30 seconds and if not corrected TAMPERING KILL will be indicated.

TAMPER DURING PANEL GUNNERY

- **BIT Indication**

Note: A BIT Indication removes the capability to fire until the system has been corrected.

SUMMARY

- **Panel gunnery**
- **Combat gunnery (force-on-force)**
- **Scaled gunnery**
- **Tracking training**

CLOSING STATEMENT

- **To get the maximum training value from TWGSS, you must be able to operate the system in the various training modes.**